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OM protein - protein search, using sw model

Run on: August 9, 2003, 16:11:13 ; Search time 45.2571 Seconds  
(without alignments)  
56.115 Million cell updates/sec

Title: US-09-905-691-4

Perfect score: 16

Sequence: 1 ARRAARAARRARA 16

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 1107863 seqs, 158746573 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

A\_Geneseq\_19Jun03:\*

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9: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1988.DAT:\*

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16: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1995.DAT:\*

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20: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1999.DAT:\*

21: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2000.DAT:\*

22: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2001.DAT:\*

23: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:\*

24: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2003.DAT:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	16	100.0	16	23	Peptide Tris-Arg H
2	16	100.0	19	21	Heparin binding pe
3	16	100.0	19	23	Peptide Bis-Arg He
4	15	93.8	15	23	Peptide Arg Helix
5	9	56.2	19	21	Heparin binding pe
6	9	56.2	92	20	M. tuberculosis an
7	9	56.2	20	AA139179	M. tuberculosis re
8	9	56.2	105	23	M. tuberculosis an
9	9	56.2	160	20	M. tuberculosis an

10	9	56.2	160	20	AA139043	M. tuberculosis re
11	8	50.0	15	21	AA08179	Peptide modulating
12	8	50.0	71	22	AA046667	Protonibacterium
13	8	50.0	262	23	ABJ10474	Breast cancer - CA
14	8	50.0	262	23	AAU10338	Novel human CASB74
15	8	50.0	262	24	AAE33614	Human CASB7439 pro
16	8	50.0	272	22	AAU49513	Protonibacterium
17	8	50.0	361	23	AAU10339	Novel human CASB74
18	8	50.0	617	22	AAU51578	Protonibacterium
19	7	43.8	11	20	AA152078	Transduction prote
20	7	43.8	11	21	AA129419	Synthetic transduc
21	7	43.8	11	21	AA133547	Amino acid sequenc
22	7	43.8	11	22	AAE05278	Human immunodefici
23	7	43.8	11	23	AAU76085	Peptide transport
24	7	43.8	11	24	ABP56078	Protein transducti
25	7	43.8	19	19	AAW1503	Heparin binding pe
26	7	43.8	19	21	AA187836	Heparin binding pe
27	7	43.8	19	23	AA171429	Peptide Bis-Arg He
28	7	43.8	21	19	AAW1506	Heparin binding pe
29	7	43.8	21	21	AA187839	Heparin binding pe
30	7	43.8	21	24	ABU07934	H. influenzae Hap
31	7	43.8	47	20	AA141497	Fragment of human
32	7	43.8	59	22	AAU61928	Protonibacterium
33	7	43.8	94	21	AA18963	Zea mays protein f
34	7	43.8	107	22	AAU30650	Novel human secret
35	7	43.8	120	22	AA176872	Human lung tumour
36	7	43.8	120	23	AAU85527	L801P lung tumour
37	7	43.8	120	24	ABU89499	Human lung cancer-
38	7	43.8	120	24	ABU66401	Lung cancer therap
39	7	43.8	121	21	AA142466	Human ORFX ORF2230
40	7	43.8	124	23	ABG60198	Human D1THP polype
41	7	43.8	161	23	ABP41851	Human ovarian anti
42	7	43.8	162	21	AA126000	Zea mays protein f
43	7	43.8	202	22	ABG08277	Novel human diagno
44	7	43.8	205	20	AA141495	Fragment of human
45	7	43.8	240	21	AA142380	Human ORFX ORF2144

#### ALIGNMENTS

##### RESULT 1

AA171430  
ID AA171430 standard; peptide; 16 AA.

XX AA171430;

AC AA171430;

XX 27-NOV-2002 (first entry)

DT Peptide Tris-Arg Helix #3 fragment.

DE Sepsis; branched chain peptide; antibacterial; immunosuppressive;

DE endotoxin; helix peptide.

KW Synthetic.

OS Synthetic.

XX Key

XX Modified-site

XX Location/Qualifiers

XX 16

XX /note= "Ala is modified by unidentified R1 group"

XX EPI232754-A2.

XX 21-AUG-2002.

XX 14-FEB-2002; 2002EP-0251027.

XX 14-FEB-2001; 2001US-268410P.

XX (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.

XX Harris RB, Wolz RL, Wolz G;

XX WPI; 2002-659478/71.

XX Use of cationic helix peptides for treatment of sepsis and for the  
 PT detection and removal of endotoxins  
 XX Disclosure; Fig 1B; 18pp; English.  
 XX  
 CC This invention describes a novel use of antibacterial and  
 CC immunosuppressive peptides designated Arg Helix 2, Bis Arg Helix 2,  
 CC Tetra-Arg Helix 2 or Tris-Arg Helix 3 for the manufacture of a medicament  
 CC for the treatment of sepsis and the detection and removal of endotoxins.  
 CC The peptides of the invention are used in a method for detecting  
 CC endotoxin in a sample comprising contacting the sample with a labelled  
 CC helix peptide and then detecting the presence of any labelled molecule  
 CC bound to endotoxin. The peptides can also be used in a method for  
 CC removing endotoxin in a sample which comprises exposing the sample to a  
 CC helix peptide, bound to a solid support, then collecting the sample. The  
 CC endotoxin removal may be in vivo, or the peptides may be used to form an  
 CC affinity trap for endotoxins in e.g. dialysis-type treatments, or for  
 CC removal of endotoxins from plasma fractionation products. They are also  
 CC used as model frameworks for endotoxin binding from which new analogues  
 CC may be designed. This sequence represents the peptide Arg Helix #3 which  
 CC is used in the construction of Tris-Arg Helix #3, a branched chain  
 CC peptide described in the method of the invention.

SQ Sequence 16 AA;

Query Match 100.0%; Score 16; DB 23; Length 16;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-07;  
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ARRAAARARRARAE 16  
 |||||  
 Db 1 ARRAAARARRARAE 16

RESULT 2

AA87840  
 ID AAY87840 standard; peptide; 19 AA.

XX AAY87840;

DT 01-SEP-2000 (first entry)

XX Heparin binding peptide Bis-Arg helix #2.

XX Heparin binding peptide; antagonist; cardiovascular; coagulant;  
 KW bleeding wound; vascular anastomoses; leaking prosthetic vascular graft;  
 KW protamine substitute; treatment.

XX Synthetic.

XX EP999219-A2.

XX 10-MAY-2000.

XX 01-OCT-1999; 99EP-0119514.

XX 06-OCT-1998; 98US-0166930.

XX (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.

XX Harris RB, Sobel M;

XX WPI; 2000-306006/27.

XX New heparin binding molecules, useful for reducing heparin content in a  
 PT mammal by reducing the anticoagulant effects of heparin -

XX Example 1; Fig 1a; 39pp; English.

XX This invention describes novel heparin binding molecules (I). The  
 CC molecules (I) are useful as heparin antagonist drugs for cardiovascular  
 CC application and specifically neutralize heparin's conventional

CC anticoagulant properties. (I) are also useful for counteracting actions  
 CC of heparin locally e.g. in bleeding wounds, vascular anastomoses or  
 CC leaking prosthetic vascular grafts. (I) is also useful combined in a  
 CC pharmaceutical composition with insulin, as a substitute for protamine  
 CC for use in treating diabetics. The heparin binding molecules (I)  
 CC specifically neutralize heparin's conventional anticoagulant properties  
 CC without causing deleterious hemodynamic side-effects or exacerbation of  
 CC the proliferative vascular response to injury. (I) are short-duration,  
 CC intravenous drugs to be used in elective or emergency situations which  
 CC can safely and specifically neutralize heparin's proliferative response  
 CC to injury. This sequence represents a heparin-binding peptide described  
 CC in the method of the invention.

SQ Sequence 19 AA;

Query Match 100.0%; Score 16; DB 21; Length 19;

Best Local Similarity 100.0%; Pred. No. 1.4e-07;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ARRAAARARRARAE 16

|||||

Db 4 ARRAAARARRARAE 19

RESULT 3

AA871428

ID AAB71428 standard; peptide; 19 AA.

XX AAB71428;

DT 27-NOV-2002 (first entry)

XX Peptide Bis-Arg Helix #2 fragment #1.

XX Sepsis; branched chain peptide; antibacterial; immunosuppressive;  
 KW endotoxin; helix peptide.

XX Synthetic.

XX Key Location/Qualifiers

FT Modified-site 19

FT /note- "Ala is modified by unidentified R1 group"

XX EP1232754-A2.

XX 21-AUG-2002.

XX 14-FEB-2002; 2002EP-0251027.

XX 14-FEB-2001; 2001US-368410P.

XX (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.

XX Harris RB, Wolz RL, Wolz G;

XX WPI; 2002-659478/71.

XX Use of cationic helix peptides for treatment of sepsis and for the  
 PT detection and removal of endotoxins -

XX Disclosure; Fig 1A; 18pp; English.

XX This invention describes a novel use of antibacterial and  
 CC immunosuppressive peptides designated Arg Helix 2, Bis Arg Helix 2,  
 CC Tetra-Arg Helix 2 or Tris-Arg Helix 3 for the manufacture of a medicament  
 CC for the treatment of sepsis and the detection and removal of endotoxins.  
 CC The peptides of the invention are used in a method for detecting  
 CC endotoxin in a sample comprising contacting the sample with a labelled  
 CC helix peptide and then detecting the presence of any labelled molecule  
 CC bound to endotoxin. The peptides can also be used in a method for  
 CC removing endotoxin in a sample which comprises exposing the sample to a  
 CC helix peptide, bound to a solid support, then collecting the sample. The  
 CC endotoxin removal may be in vivo, or the peptides may be used to form an

CC affinity trap for endotoxins in e.g. dialysis-type treatments, or for  
 CC removal of endotoxins from plasma fractionation products. They are also  
 CC used as model frameworks for endotoxin binding from which new analogues  
 CC may be designed. This sequence represents the peptide Arg Helix #2 which  
 CC is used in the construction of Bis-Arg Helix #2, a branched chain peptide  
 CC described in the method of the invention.

XX  
 XX Sequence 19 AA;  
 Query Match 100.0%; Score 16; DB 23; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 1.4e-07;  
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 ARRAARAARRARAEEA 16  
 DB 4 ARRAARAARRARAEEA 19  
 |||||

RESULT 4  
 AAB71432  
 ID AAB71432 standard; peptide; 15 AA.  
 XX AC AAB71432;  
 XX DT 27-NOV-2002 (first entry)  
 XX DE Peptide Arg Helix #3 for construction of Tris-Arg helix #3.  
 XX KW Sepsis; branched chain peptide; antibacterial; immunosuppressive;  
 XX KW endotoxin; helix peptide.  
 XX OS Synthetic.  
 XX FH Key Location/Qualifiers  
 FT Modified-site 1 /note- "This residue has a side chain  
 FT C(O)-NepsilionH-(CH2)3-Tris-ArgHel#3, where  
 FT the Tris-ArgHel#3 is represented in AAB71431"  
 FT Modified-site 16 /note- "Acylated residue"  
 FT EP123275A-A2.  
 XX PD 21-AUG-2002.  
 XX PF 14-FEB-2002; 2002EP-0251027.  
 XX PR 14-FEB-2001; 2001US-268410P.  
 XX PA (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.  
 XX PI Harris RB, Wolz RL, Wolz G;  
 XX DR WPI; 2002-659478/71.

XX Use of cationic helix peptides for treatment of sepsis and for the  
 XX detection and removal of endotoxins  
 XX Disclosure; Fig 2; 18pp; English.  
 XX CC This invention describes a novel use of antibacterial and  
 CC immunosuppressive peptides designated Arg Helix 2, Bis Arg Helix 2,  
 CC Tetra-Arg Helix 2 or Tris-Arg Helix 3 for the manufacture of a medicament  
 CC for the treatment of sepsis and the detection and removal of endotoxins.  
 CC The peptides of the invention are used in a method for detecting  
 CC endotoxin in a sample comprising contacting the sample with a labelled  
 CC helix peptide and then detecting the presence of any labelled molecule  
 CC bound to endotoxin. The peptides can also be used in a method for  
 CC removing endotoxin in a sample which comprises exposing the sample to a  
 CC helix peptide, bound to a solid support, then collecting the sample. The  
 CC endotoxin removal may be in vivo, or the peptides may be used to form an  
 CC affinity trap for endotoxins in e.g. dialysis-type treatments, or for  
 CC removal of endotoxins from plasma fractionation products. They are also

CC used as model frameworks for endotoxin binding from which new analogues  
 CC may be designed. This sequence represents the peptide Arg Helix #3 which  
 CC is used in the construction of the branched chain peptide Tris-Arg Helix  
 CC #3 described in the method of the invention.

XX  
 XX Sequence 15 AA;  
 Query Match 93.8%; Score 15; DB 23; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 8.5e-07;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 2 RRAARAARRARAEEA 16  
 DB 1 RRAARAARRARAEEA 15  
 |||||

RESULT 5  
 AAY87834  
 ID AAY87834 standard; peptide; 19 AA.  
 XX AC AAY87834;  
 XX DT 01-SEP-2000 (first entry)  
 XX DE Heparin binding peptide Arg helix #1.  
 XX KW Heparin binding peptide; antagonist; cardiovascular; coagulant;  
 XX KW bleeding wound; vascular anastomoses; leaking prosthetic vascular graft;  
 XX KW protamine substitute; treatment.  
 XX OS Synthetic.  
 XX PN EP999219-A2.  
 XX PD 10-MAY-2000.  
 XX PF 01-OCT-1999; 99EP-0119514.  
 XX PR 06-OCT-1998; 98US-0166930.  
 XX PA (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.  
 XX PI Harris RB, Sobel M;  
 XX DR WPI; 2000-306006/27.  
 XX DT New heparin binding molecules, useful for reducing heparin content in a  
 XX mammal by reducing the anticoagulant effects of heparin -  
 XX Example 1; Page 7; 39pp; English.

XX This invention describes novel heparin binding molecules (I). The  
 CC molecules (I) are useful as heparin antagonist drugs for cardiovascular  
 CC application and specifically neutralize heparin's conventional  
 CC anticoagulant properties. (I) are also useful for counteracting actions  
 CC of heparin locally e.g. in bleeding wounds, vascular anastomoses or  
 CC leaking prosthetic vascular grafts. (I) is also useful combined in a  
 CC pharmaceutical composition with insulin, as a substitute for protamine  
 CC for use in treating diabetics. The heparin binding molecules (I)  
 CC specifically neutralize heparin's conventional anticoagulant properties  
 CC without causing deleterious hemodynamic side-effects or exacerbation of  
 CC the proliferative vascular response to injury. (I) are short-duration,  
 CC intravenous drugs to be used in elective or emergency situations which  
 CC can safely and specifically neutralize heparin's proliferative response  
 CC to injury. This sequence represents a heparin-binding peptide described  
 CC in the method of the invention.

XX Sequence 19 AA;  
 Query Match 56.2%; Score 9; DB 21; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 0.15;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;





OY 7 AAARRARAE 15  
 Db 31 AAARRARAE 39

## RESULT 11

AA08179  
 ID AA08179 standard; peptide; 15 AA.

XX  
 AC AAB08179;

XX  
 DT 04-DEC-2000 (first entry)

XX  
 DE Peptide modulating activity of heparin, and other glycans.

XX  
 KW Glycoaminoglycan; proteoglycan; heparin modulation; anticoagulant;  
 cell attachment; cell adhesion; vein graft; tumour cell metastasis;  
 cartilage differentiation; wound healing.

XX  
 OS Synthetic.

XX  
 PN WO200045831-A1.

XX  
 PD 10-AUG-2000.

XX  
 PF 02-FEB-2000; 2000WO-US02853.

XX  
 PR 02-FEB-1999; 99US-0118276.

XX  
 PA (UJJE-) UNIV JEFFERSON THOMAS.

XX  
 PI San Antonio JD, Verrecchio A, Schick BP;

XX  
 DR WPI; 2000-543446/49.

XX  
 PT Novel synthetic peptides with high affinity for glycoaminoglycans and  
 proteoglycans, useful for modulating heparin, promoting cell  
 attachment, modulating tumour metastasis and modulating wound healing -  
 Disclosure; Page 31; 76pp; English.

XX  
 CC The present sequence represents a synthetic peptide which has a high  
 affinity for glycoaminoglycans and proteoglycans. The peptide is useful  
 in methods for modulating heparin or other glycoaminoglycans with  
 anticoagulant activity, promoting cell attachment or adhesion to  
 natural or synthetic surfaces (especially vein grafts), modulating  
 tumour cell metastasis, modulating cartilage differentiation, targeting  
 drugs to epithelial cell surfaces (or to other cells expressing  
 proteoglycans), modulating enzymes that act on glycoaminoglycan  
 substrates, affinity purification of bioactive sequences of a  
 glycoaminoglycan, modifying endothelial cell pro-coagulant or  
 anti-coagulant functions mediated through glycoaminoglycans, and  
 modulating wound healing. The peptide may also be used for blocking  
 tissue uptake of heparin or other glycoaminoglycans in a mammal to  
 increase heparin half-life in circulation.

XX  
 SQ Sequence 15 AA;

Query Match 50.0%; Score 8; DB 21; Length 15;

Best Local Similarity 100.0%; Pred. No. 0.92;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 7 AAARRARA 14

Db 1 AAARRARA 8

## RESULT 12

AA046667

ID AA046667 standard; Protein; 71 AA.

XX  
 AC AA046667;

XX

27-FEB-2002 (first entry)

Propionibacterium acnes immunogenic protein #7563.

SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;  
 uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;  
 inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;  
 dermatological; osteopathic; neuroprotectant.

Propionibacterium acnes.

WO200181581-A2.

01-NOV-2001.

20-APR-2001; 2001WO-US12865.

21-APR-2000; 2000US-199047P.

02-JUN-2000; 2000US-208841P.

07-JUL-2000; 2000US-216747P.

(CORI-) CORIXA CORP.

Skeiky YAW, Persing DH, Mitcham JL, Wang SS, Bhatia A;

L'maisonneuve J, Zhang Y, Jen S, Carter D;

WPI; 2001-616774/71.

N-PSDB; AAS59534.

Propionibacterium acnes polypeptides and nucleic acids useful for  
 vaccinating against and diagnosing infections, especially useful for  
 treating acne vulgaris.

Example 1; SEQ ID No 7862; 1069pp; English.

Sequences AA039105-AA068017 represent Propionibacterium acnes immunogenic  
 polypeptides. The proteins and their associated DNA sequences are used in  
 the treatment, prevention and diagnosis of medical conditions caused by  
 P. acnes. The disorders include SAPHO syndrome (synovitis, acne,  
 pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis.  
 P. acnes is also involved in infections of bone, joints and the central  
 nervous system, however it is particularly involved in the inflammatory  
 lesions associated with acne vulgaris. A method for detecting the  
 presence or absence of P. acnes in a patient comprises contacting a  
 sample with a binding agent that binds to the proteins of the invention  
 and determining the amount of bound protein in the sample. The  
 polypeptides may be used as antigens in the production of antibodies  
 specific for P. acnes proteins. These antibodies can be used to  
 downregulate expression and activity of P. acnes polypeptides and  
 therefore treat P. acnes infections. The antibodies may also be used as  
 diagnostic agents for determining P. acnes presence, for example, by  
 enzyme linked immunosorbent assay (ELISA).  
 Note: The sequence data for this patent did not form part of the printed  
 specification, but was obtained in electronic format directly from WIPO  
 at ftp.wipo.int/pub/published\_pct\_sequences.

Sequence 71 AA;

Query Match 50.0%; Score 8; DB 22; Length 71;

Best Local Similarity 100.0%; Pred. No. 3.1;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 RAARRAAR 10

Db 17 RAARRAAR 24

## RESULT 13

ABJ10474

ID ABJ10474 standard; Protein; 262 AA.

XX  
 AC ABJ10474;

XX

DT 21-NOV-2002 (first entry)  
 DE Breast cancer - CASB7439 related protein SEQ ID NO 3.  
 XX  
 KW Cytostatic; gene therapy; vaccine; immunotherapeutic; breast carcinoma;  
 KW cancer; immunogen; immunisation; breast tumour; CASB7439.  
 OS Homo sapiens.  
 XX  
 PN WO200266506-A2.  
 XX  
 PD 29-AUG-2002.  
 XX  
 XX 15-FEB-2002; 2002WO-EP01649.  
 PF  
 XX 21-FEB-2001; 2001GB-0004259.  
 PR  
 XX (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.  
 PA  
 PI Vinals Y De Bassols C, Cassart J;  
 XX WPI; 2002-674914/72.  
 DR  
 XX Use of CASB7439 polypeptides and polynucleotides, their variants,  
 PT immunogenic fragments and fusion proteins, for the manufacture of  
 PT medicaments for the prophylaxis, treatment and diagnosis of breast  
 PT tumors or cancer -  
 XX  
 XX Disclosure; Page 70; 115pp; English.  
 PS  
 XX The invention relates to the use of a human polynucleotide and  
 CC polypeptide comprising at least 70 % identity to a 1791 base pair  
 CC sequence over its entire length, or to a 193 residue amino acid sequence,  
 CC both given in the specification, for the manufacture of a medicament for  
 CC immunotherapeutically treating a patient suffering from or susceptible to  
 CC breast carcinoma. The polynucleotides and polypeptides are useful as  
 CC immunogens for specific prophylactic or therapeutic immunisation against  
 CC breast tumours. The polynucleotide of the invention can be used in gene  
 CC therapy. This sequence represents a protein related to the CASB7439 -  
 CC breast cancer proteins of the invention.  
 XX  
 SQ Sequence 262 AA;  
 Query Match 50.0%; Score 8; DB 23; Length 262;  
 Best Local Similarity 100.0%; Pred. No. 8.4;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 2 RRAARAAA 9  
 Db 134 RRAARAAA 141  
 RESULT 14  
 AAU10338  
 ID AAU10338 standard; Protein; 262 AA.  
 XX  
 AC AAU10338;  
 XX  
 DT 14-FEB-2002 (first entry)  
 XX  
 DE Novel human CASB7439 protein #3.  
 XX  
 KW CASB7439; human; cytostatic; immunosuppressive; vaccine; carcinoma;  
 KW colon cancer; tumour; immunoprophylaxis; immune response;  
 KW colorectal cancer; immunogenic; autoimmune disease.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200162778-A2.  
 XX  
 PD 30-AUG-2001.  
 XX  
 PF 16-FEB-2001; 2001WO-EP01779.

XX 23-FEB-2000; 2000GB-0004269.  
 PR 20-APR-2000; 2000GB-0009905.  
 PR 25-AUG-2000; 2000GB-0021080.  
 XX (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.  
 PA  
 XX Cabazon-Silva TEV, Cassart J, Coche T, Gaulis SRJ;  
 PI Vinals De Bassols YC;  
 XX WPI; 2002-041150/05.  
 DR N-PSDB; AAS14990.  
 DR  
 XX Novel isolated CASB7439 polypeptide useful in diagnostics, and as  
 PT vaccines for prophylactic and therapeutic treatment of cancers,  
 PT particularly colorectal cancers, autoimmune diseases and related  
 PT conditions -  
 XX  
 PS Claim 7; Page 71; 101pp; English.  
 XX  
 CC The invention relates to a novel isolated CASB7439 polypeptide (I).  
 CC (I), and its related polynucleotide (II) are useful in the manufacture of  
 CC a vaccine for immunotherapeutically treating a patient suffering from or  
 CC susceptible to carcinoma, preferably colon cancer or other colon-  
 CC associated tumours or diseases. (I), (II), and antibody to (I) are  
 CC useful for the treatment of a subject by immunoprophylaxis or therapy  
 CC by in vitro induction of immune responses to (I), preferably for  
 CC the treatment of colorectal cancer. An immunogenic composition  
 CC comprising (I) is useful in medicine and for inducing an immune response  
 CC against human CASB7439 polypeptide. (I) is useful as an immunogen to  
 CC produce antibodies immunospecific for (I), to identify membrane bound or  
 CC soluble receptors, and in a method for the structure-based design of an  
 CC agonist, antagonist or inhibitor of (I). (I) or (II) can be used in  
 CC diagnostics, and for prophylactic and therapeutic treatment of autoimmune  
 CC diseases and related conditions. (I) or (II) is useful for inducing, re-  
 CC enforcing or modulating an immune response in a mammal. (II) is useful as  
 CC hybridisation probes for cDNA and genomic DNA or as primers for a  
 CC nucleic acid amplification (PCR) reaction, to isolate full-length cDNAs  
 CC and genomic clones encoding (I). (II) is useful for staging cancerous  
 CC cancerous disorders and grading the nature of the cancerous tissue, and  
 CC for chromosome localisation. Antibody to (I) is useful to isolate or  
 CC identify clones expressing (I), to purify (I), and to prevent or treat  
 CC cancer, particularly colorectal cancer, autoimmune disease and related  
 CC conditions. The present sequence represents the amino acid sequence  
 CC of human CASB7439 polypeptide #3 as described in the invention.  
 XX  
 SQ Sequence 262 AA;  
 Query Match 50.0%; Score 8; DB 23; Length 262;  
 Best Local Similarity 100.0%; Pred. No. 8.4;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 2 RRAARAAA 9  
 Db 134 RRAARAAA 141  
 RESULT 15  
 AA33614  
 ID AA33614 standard; Protein; 262 AA.  
 XX  
 AC AA33614;  
 XX  
 DT 16-APR-2003 (first entry)  
 XX  
 DE Human CASB7439 protein #2.  
 XX  
 KW CASB7439 protein; lung cancer; NSCLC; squamous epidermoid carcinoma;  
 KW SCLC; adenocarcinoma; large cell carcinoma; carcinoid; mesothelioma;  
 KW cytostatic; bronchial gland tumour; human.  
 XX  
 OS Homo sapiens.  
 XX

PN WO200292627-A2.  
XX  
PD 21-NOV-2002.  
XX  
PF 07-MAY-2002; 2002WO-EP05011.  
XX  
PR 16-MAY-2001; 2001GB-0011974.  
XX  
PA (GLAX ) GLAXOSMITHKLINE BIOLOGICALS SA.  
XX  
PI Coche T, Gaulis SRJ, Vinals De Bassols YC;  
XX  
DR WPI; 2003-120647/11.  
XX N-PSDB; AAD51534.  
XX  
PT Use of a CASB7439 polynucleotide or polypeptide for manufacturing a  
PT medicament for immunotherapeutically preventing or treating a patient  
PT suffering from or susceptible to preneoplastic lesions of lung cancer  
PT and lung cancer  
XX  
PS Disclosure; Column 74-75; 55pp; English.  
XX  
CC The invention relates to use of CASB7439 sequences for manufacturing a  
CC medicament for immunotherapeutically preventing or treating a patient  
CC suffering from or susceptible to preneoplastic lesions of lung cancer,  
CC and lung cancer and methods for diagnosing lesions. CASB7439 sequences  
CC are useful for manufacturing a medicament for treating preneoplastic  
CC lesions of lung cancer and lung cancer, such as SCLC, NSCLC (e.g. large  
CC cell (undifferentiated) carcinoma), squamous (epidermoid) carcinoma,  
CC carcinoids, adenocarcinoma (including bronchoalveolar), bronchial gland  
CC tumours or mesotheliomas. CASB7439 DNA is used in gene therapy. The  
CC present sequence is human CASB7439 protein.  
XX  
SQ Sequence 262 AA;  
Query Match 50.0%; Score 8; DB 24; Length 262;  
Best Local Similarity 100.0%; Pred. No. 8.4;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2 RRAA AAA 9  
| | | | | | | |  
Db 134 RRAA AAA 141  
Search completed: August 9, 2003, 16:29:07  
Job time : 46.2571 secs